Summary Worksheet		Other Calculat	ions Pertaining	to SY								
-	EEA-SY	25% AugQ50		10-10-25-15	# months	# months	# months	% time	% time	% time	Avg %	Avg %
			depletion	depletion	safe yield	safe yield	safe yield	SY>flow	SY> flow	SY> flow	dry	dry
			of MQ50s	of MQ90s	exceeds	exceeds	exceeds	July	Aug	Sept	summer	summer
		cfsm	cfsm	cfsm	maximum	monthly	MQ90 drought	represents	dry riverbe	ed*	low	high
					allocatable	median	flow	·				
Blackstone	74.6	17.9	36.3	15.9	6	2	5	44-56	54-63	52-54	50	50
BH-Weymouth	18.6	4.1	8.7	3.5	6	3	5	52-57	53-58	55-56	53	57
BH-Neponset	21.7	5.2	10.0	4.4	6	3	5	51-59	54-59	56-56	55	58
BH-Monatiquot					6	3	5	51-59	53-58	54-57	53	58
BH-Weir					6	3	5	50-56	52-57	54-55	52	56
BH-Mystic	14.8	3.6	7.4	3.4	7	2	4	43-53	59-64	61-65	54	61
Charles	64.8	15.7	29.1	13.7	6	3	5	52-60	54-60	55-59	54	60
Chicopee	353.2	255.9	281.4	245.6	8	0	4	24-38	39-49	31-38	31	42
Concord (SuAsCo)	87.4	18.4	38.7	19.1	7	2	5	43-52	61-66	65-66	56	61
Connecticut (Gage data)	1866.4	713.7	942.5	476.3	8	0	0	16-27	25-33	24-27	22	
Deerfield	130.0	37.3	67.4	31.9	8	0	4	22-37	41-51	41-46	35	
Farmington	25.3	7.0	13.8	5.9	6	0	4	33-43	47-55	40-42	40	
French	19.7	4.4	8.8	4.0	6	2	4	41-52	55-62	57-60	51	58
Housatonic	87.7	30.4	43.6	21.1	6	0	3	21-34	29-39	26-28	25	
Hudson	37.0	12.1	19.3	9.0	8	0	4	14-27	32-42	38-40	28	36
Ipswich	29.4	6.4	14.3	6.3	8	2	5	36-45	57-64	65-67	53	
Merrimack (Gage data)	917.1	287.1	460.6	222.4	8	0	4	27-39	36-45	37-41	33	
Millers	66.1	20.5	35.6	15.4	8	0	4	25-40	38-46	35-40	33	42
Nashua	255.6	169.1	190.0	162.2	8	0	4	26-40	42-51	43-45	37	
Parker	14.8	3.2	7.4	3.1	8	2	5	63-66	59-64	67-67	63	
Quinebaug	31.9	7.8	14.9	7.0	6	2	5	42-55	55-62	51-53	49	57
Shawsheen	14.5	3.2	7.1	3.1	8	2	5	37-45	58-64	65-66	53	
Taunton	134.3	33.7	55.6	27.4	6	2	5	44-55	50-57	56-59	50	
Tenmile	10.6	2.6	4.8	2.0	6	2	5	47-54	51-56	57-58	52	
Westfield	98.8	35.0	55.0	31.0	6	3	5	50-57	52-57	53-55	52	56
					6.88	1.52	4.36				45	52
Column B is EEA Safe Yield												
Columns D is Safe Yield if based o												
Column E is Safe Yield if based on	streamflow crite	ria applied to n	nonthly median	s (maximum acc	eptable alterat	ion= 10% Janu	ary; 10% April; 25	% August;	15% Octobe	er		
Column F is Safe Yield if based on		• • • • • • • • • • • • • • • • • • • •	_ ,									
Column G is the number of mont					would be belov	v the 45% Envi	ronmental Protec	tion Factor	(MQ90 dro	ught)		
Column H is the number of mont												
Columns J-N show the % of time i												
the lower numbers represent i		· .										
the higher numbers represent						r withdrawals	in summer)					
* based on EEA assumptions that				•	•							
the lower number is based on SY	as a constant; the	higher numbe	r is based on ap	pplying USGS's n	nonthly deman	d curve (groun	dwater)					
Prepared by Kerry Mackin								1	1			